

ABSTRACT OF THE INVENTION

A security apparatus is disclosed which provides for a cargo asset monitoring and tracking capability. The security apparatus may contain a physical locking function which provides a physical deterrent to an attached item

5 such as a shipping drum. A microcontroller is provided within the security apparatus which monitors and coordinates locking/unlocking functions of the security apparatus, monitors an associated sensor to detect alarm conditions, monitors information from an RF transceiver with respect to proximity alerts and monitors information from one or more sensors incorporated within the security

10 apparatus, the sensors providing information which may indicate tampering or damage to the cargo. The security apparatus is able to provide an audible alarm as well as communicate with a remote monitoring station upon detection of an alarm condition. A tracking system and process of monitoring and controlling the security apparatus from a remote location are also disclosed.